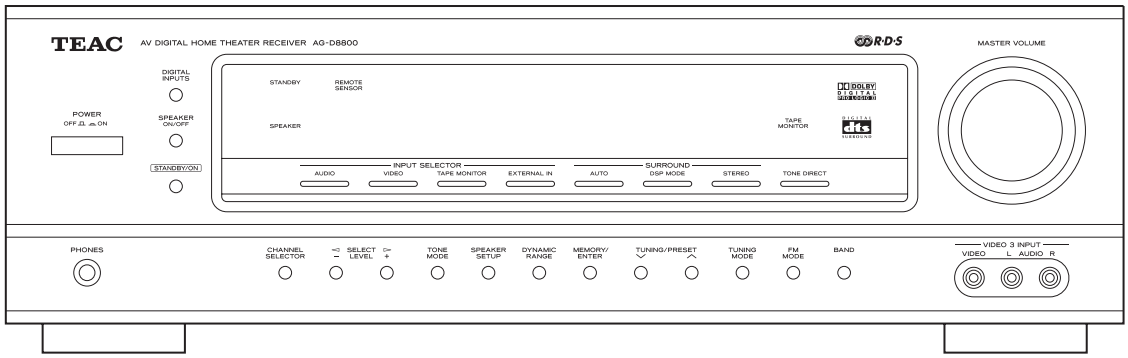
9A10303301

TEAC

AG-D8800

AV Digital Home Theater Receiver

OWNER'S MANUAL



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Thank you for choosing TEAC. Read this manual carefully to get the best performance from this unit.

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Before Use

Read this before operation

- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
  The ventilation holes should not be covered. Make sure there is at least 20 cm of space above and at least 5 cm of space on each side of the unit. Do NOT place anything on top of the unit.

- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.

- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.

- Do not place the unit on the amplifier/receiver.

- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the unit, contact your dealer or service company.

- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.

- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry or slightly damp cloth.

- Keep this manual in a safe place for future reference.

CAUTION
Ensure this product is not exposed to dripping or splashing and that no object filled with liquids, such as vases, is placed on the product.

Do not install this equipment in a confined space such as a book case or similar unit. Allow adequate air circulation around this product.

CAUTION Regarding Placement
To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Left and Right Panels: 5 cm
Rear Panel: 10 cm
Top Panel: 20 cm

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Connection (FM antenna)

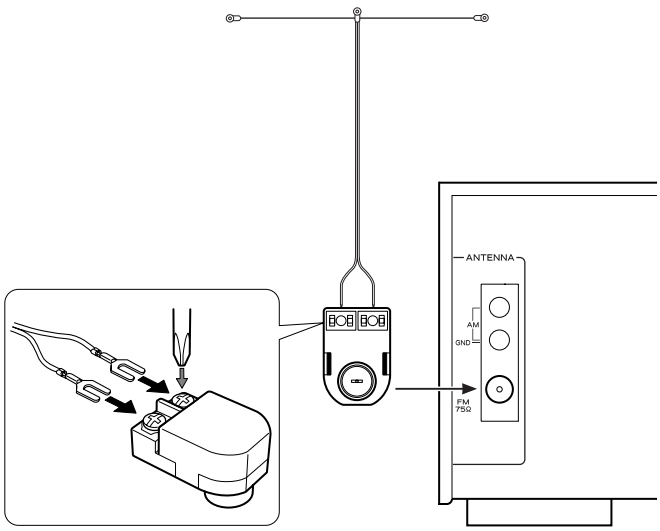
CAUTION:

- Turn off the power of all the equipment before making connections.
- Read instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, do not bundle the connection cords with the power cord or speaker cables.

FM Indoor Antenna

In an area with strong FM signals, the T-type FM antenna provided with this unit is sufficient.
Extend the antenna into a "T" shape and connect the two wires at the base of the "T" to the provided matching transformer, as shown.

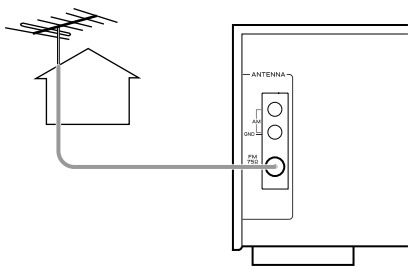
After completing connection, plug the transformer into the "FM 75Ω" socket. Extend the top of the "T" and tune the tuner to your favorite station (see page 26). Adjust the antenna in a suitable location like a window frame or wall until the reception is best and then affix the antenna in that position using thumb tacks, push pins or any other suitable means.



FM Outdoor Antenna

In an area where FM signals are weak, it will be necessary to use an 75-ohm unbalanced-type outdoor FM antenna. Generally, a 3-element antenna will be sufficient; if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements.

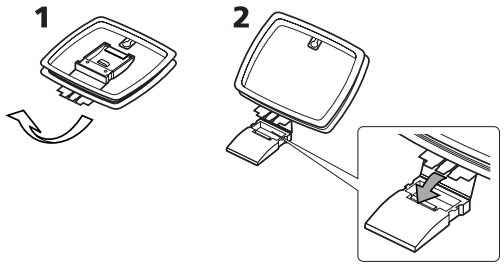
- Disconnect the FM indoor antenna when using an outdoor antenna.



Connection (AM antenna)

AM Indoor Loop Antenna

The high-performance AM loop antenna provided with this unit is sufficient for good reception in most areas.
To stand the loop antenna on a surface, fix the claw to the slot in the antenna base.

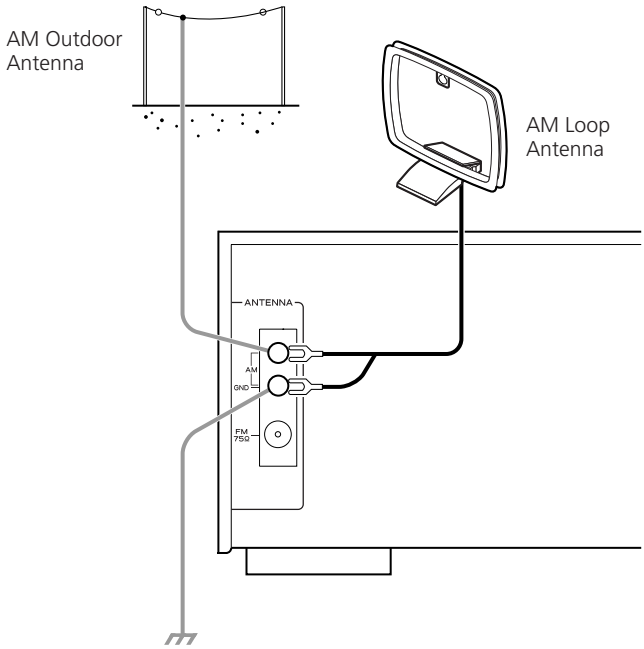


How to connect:

Turn the AM terminal's cap counterclockwise to loosen it, put the loop antenna's wire under the cap, and turn the cap clockwise to securely connect the wire.
Make sure it is fastened securely by pulling the cord lightly.

Place the antenna on a shelf or hang it on a window frame, etc., in the direction which gives the best reception. Keep all other wires such as power cords, speaker wires or interconnect wires as far away as possible from the antenna.

- If the AM loop antenna provided does not deliver sufficient reception (often due to being too far from the transmitter or in a concrete building, etc.), it may be necessary to use an outdoor AM antenna.
  Use either a high quality commercial AM antenna or, if not available, an insulated wire more than 5 m long, strip one end, and connect this to the terminal as shown.
  The antenna wire should be strung outdoors or indoors near a window. For better reception, connect the GND terminal to a reliable ground.



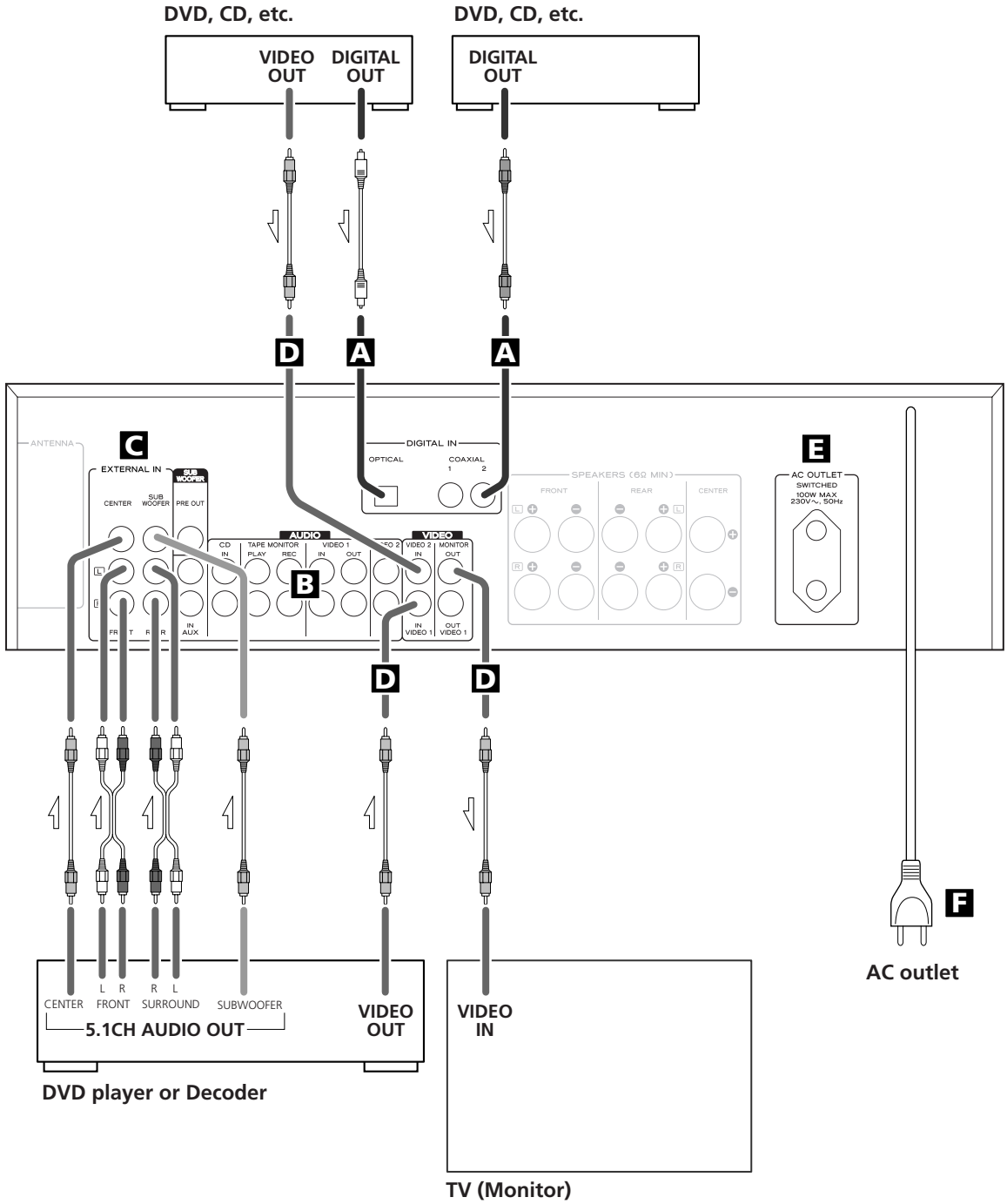
Note:

Even when using an outdoor AM antenna, do not disconnect the AM loop antenna.

Connection

CAUTION:

- Turn off the power of all the equipment before making connections.
- Read instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, do not bundle the connection cords with the power cord or speaker cables.



A DIGITAL IN terminals

Used for the input of digital audio signals. Connect these digital input terminals to the appropriate digital output terminals of the digital audio source unit such as a DVD or CD player. Use a good quality RCA coaxial cable or optical digital cable.

- When inserting the plug of the optical cable, the protective shutter of the terminal will open and you should hear it click into position when fully inserted. Be careful that you do not force the plug, because this could result in damage to the protective shutter, the cable, or the unit itself.

B AUDIO IN/OUT jacks

Analog 2-channel audio signal is input or output from these jacks. Connect the component with commercially-available RCA cables.

Make sure to connect :

white plug → white jack (L: left channel)
red plug → red jack (R: right channel)

C EXTERNAL IN jacks

If your DVD player or decoder has 6-channel analog audio outputs, connect them with good quality RCA cables.

D VIDEO jack

Connect the component with a high quality RCA cable designed for video applications.

E AC OUTLET (switched)

Not available for Australian model.
This outlet is active only when the unit is on.

Caution:

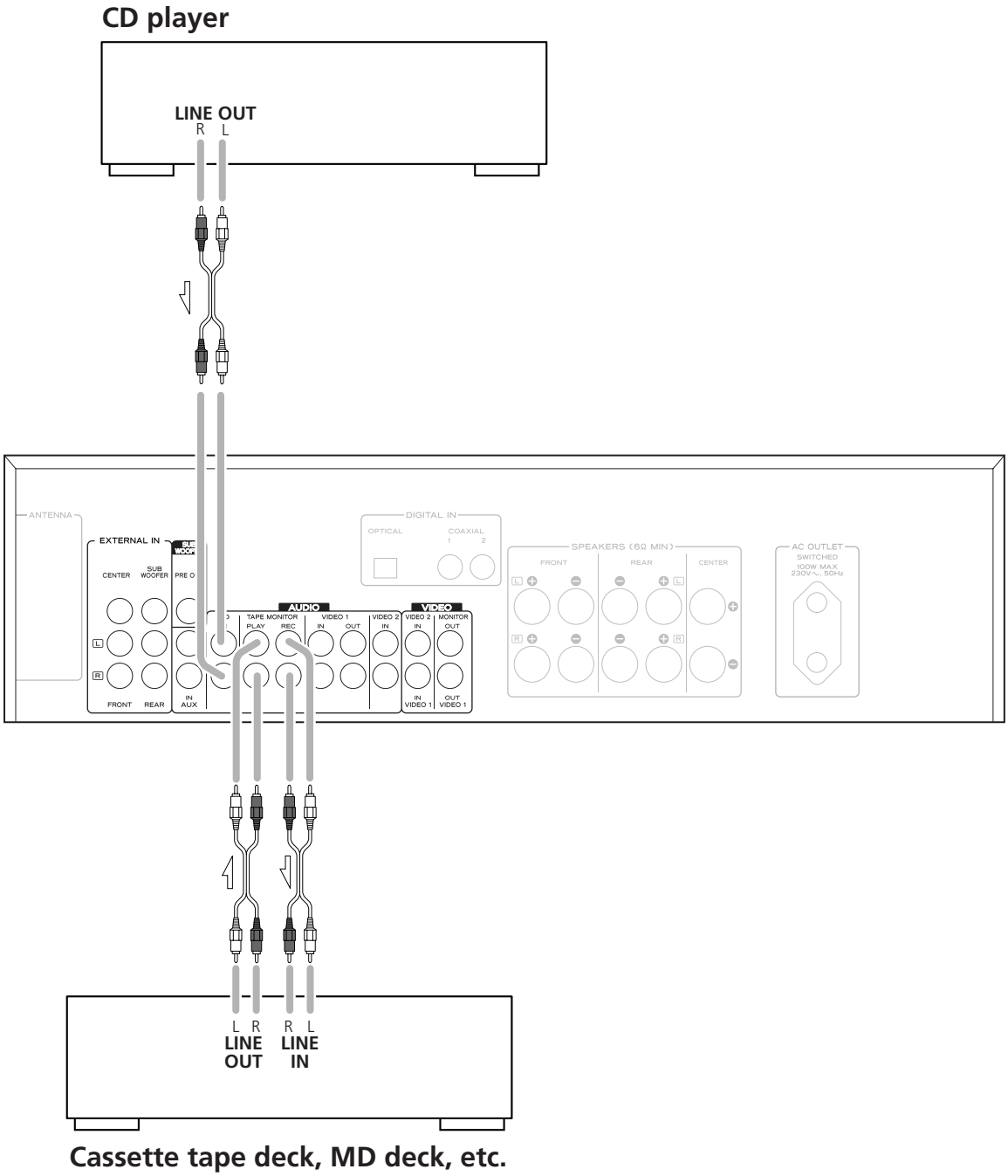
Make sure that the total power consumption of all equipment connected to the outlet does not exceed 100 watts.

F AC Power Cord

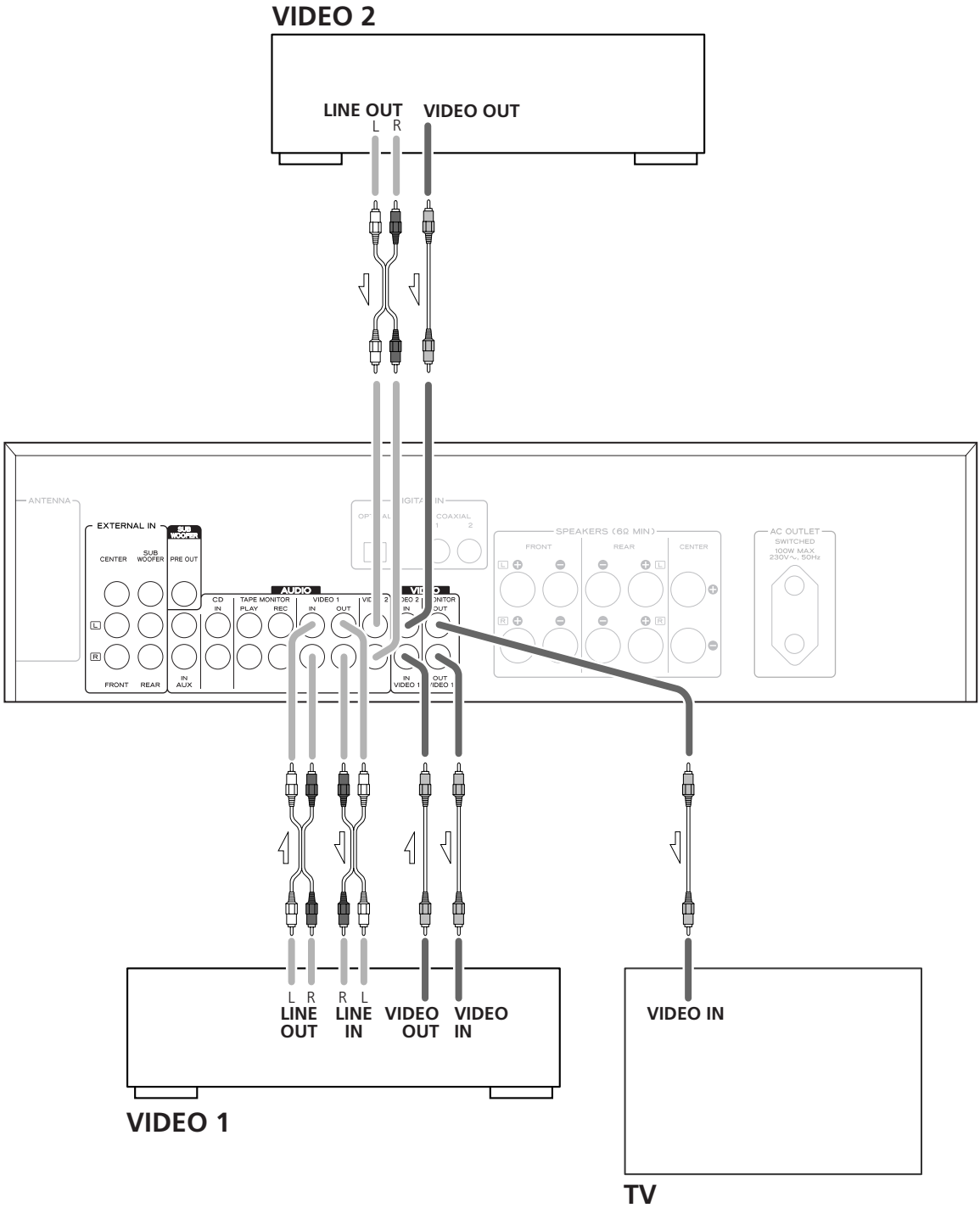
After all other connections are complete, connect the plug to the AC wall socket.

Be sure to connect the power cord to an AC outlet which supplies the correct voltage.
Hold the power plug when plugging or unplugging the power cord. Never pull or yank on the power cord.

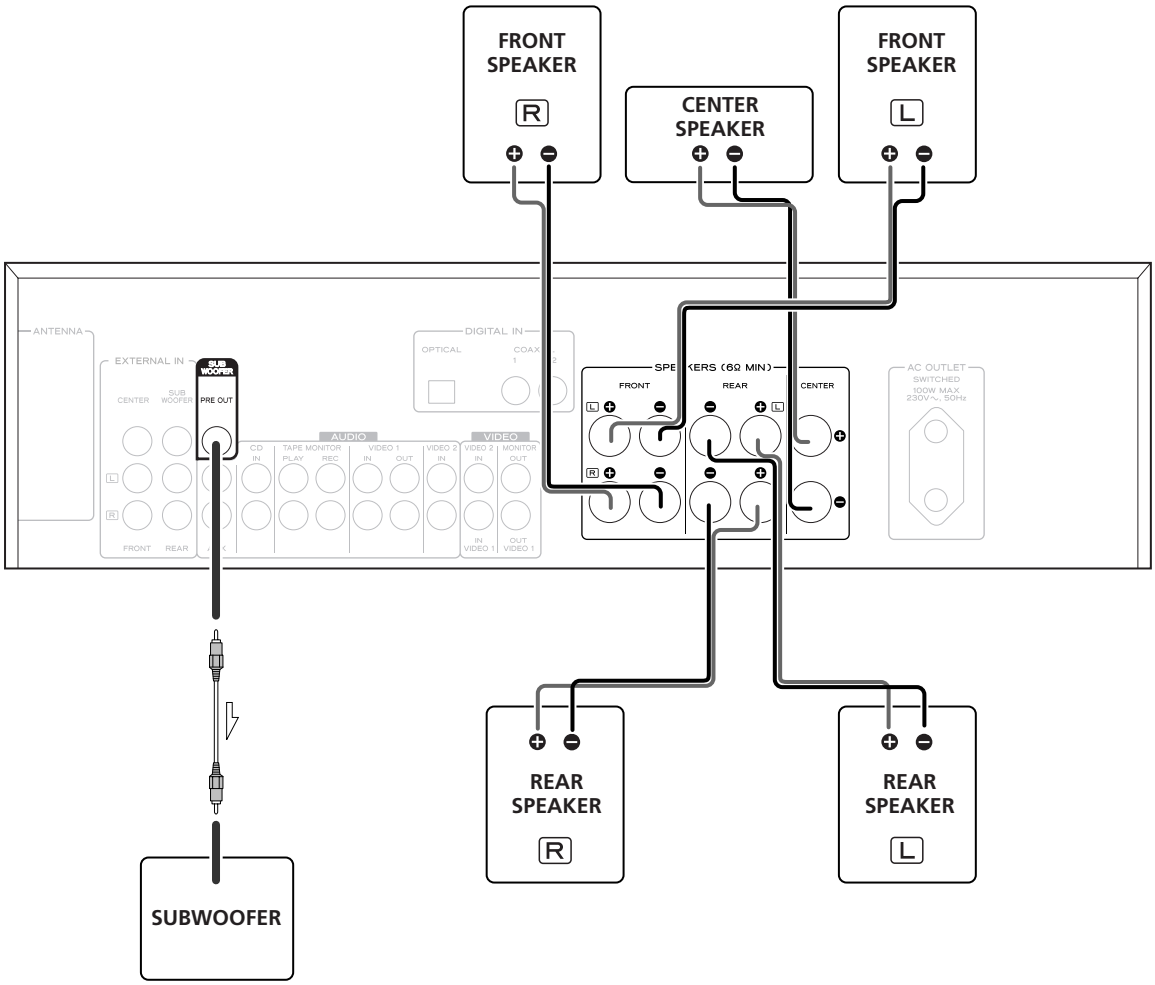
Example: Connection to Audio Components



Example: Connection to Video Cassette Recorders



Speaker Connections



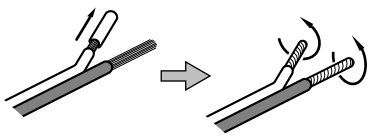
Caution:

To avoid damaging the speakers with a sudden high-level signal, be sure to switch the power off before connecting the speakers.

Check the impedance of your speakers. Connect speaker with an impedance of 6 ohms or more.

The black speaker terminals are – (negative).
Generally, the + side of the speaker cable is marked to make it distinguishable from the – side of the cable. Connect this marked side to the + terminal and the unmarked side to the black – terminal.

Prepare the speaker cables for connection by stripping off approximately 10 mm or less of the outer insulation. (Removing too much insulation may lead to a short circuit if the bared wired should come in contact with each other.) Twist the strands of the stripped wires tightly together:



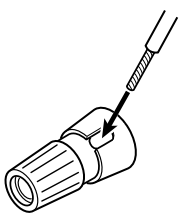
Caution:

The metal portions of the two separate wires should not touch or an electrical short can occur. Shorted wires can create a fire hazard or induce a failure in your equipment.

How to connect:

1. Turn the terminal cap counterclockwise to loosen it. The speaker terminal caps cannot be fully removed from the base.

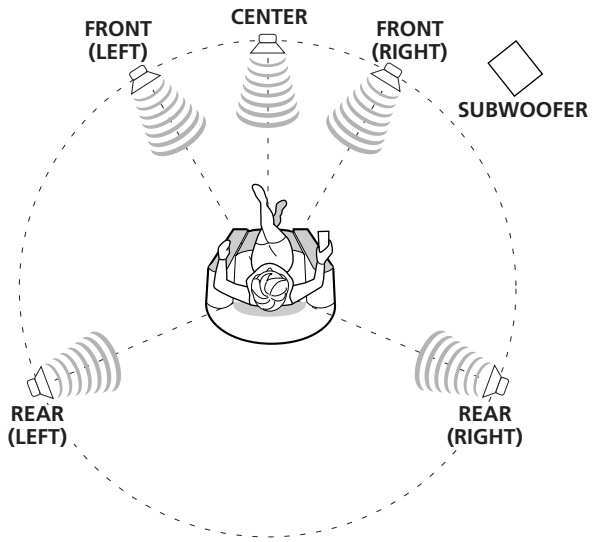
2. Insert the wire into the terminal fully and turn the terminal cap clockwise to securely connect it:



Make sure none of the wire insulation is under the terminal, only the bare, stripped wire.

3. Make sure it is fastened firmly by pulling the cable lightly.

Positioning of the Speakers



The positioning of speakers differs according to the size and acoustics of the listening room. While actually listening to a program source, try various speaker positions to determine which layout provides the best surround effect.

- Ideally, position all the speakers in a circle, with the same distance from your listening position.
- Place the speakers connected to "L" to your left, and "R" to your right.

Front speakers

Use magnetically shielded speakers, if you are using them near your TV.
Place the front speakers in front of the listening position, to the left and right of a TV.
Front speakers are required for all surround modes.

Center speaker

Use a magnetically shielded speaker if you are using it near your TV. Place a center speaker between the front speakers, on or below the TV. This speaker stabilizes the sound image.

Rear (Surround) Left and Right speakers

Install these speakers above the level of the listener's ears, directly to the left and right (or slightly behind) of your listening position.

Subwoofer

Reproduces powerful and deep bass sounds.
Use a sub-woofer with built-in amplifier referred to as a "powered sub-woofer". Subwoofers are most effective when placed on or near the floor and in a corner of the room. Refer to the instructions that came with your sub-woofer for placement suggestions.

Restoring factory settings

Memory Backup

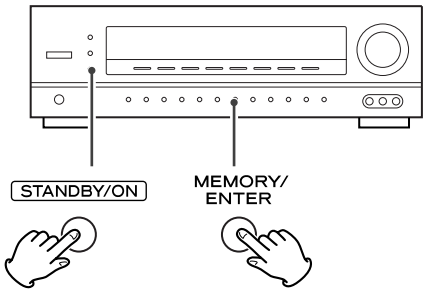
If the power supply is interrupted for 7 days or longer, the settings kept in memory (such as preset stations and speaker settings) will be erased.

Restoring factory settings

If you have made a lot of changes in the setup, and want to restart from a known set of options, restore the unit to the factory default settings as follows:

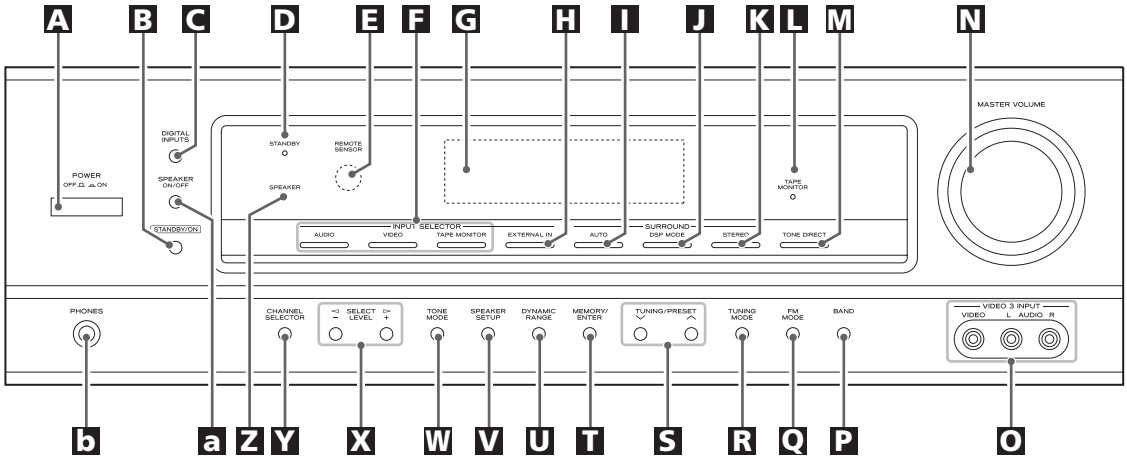
1. Turn the unit standby using the POWER switch.

2. While holding down the MEMORY button, press the STANDBY/ON button of the main unit.

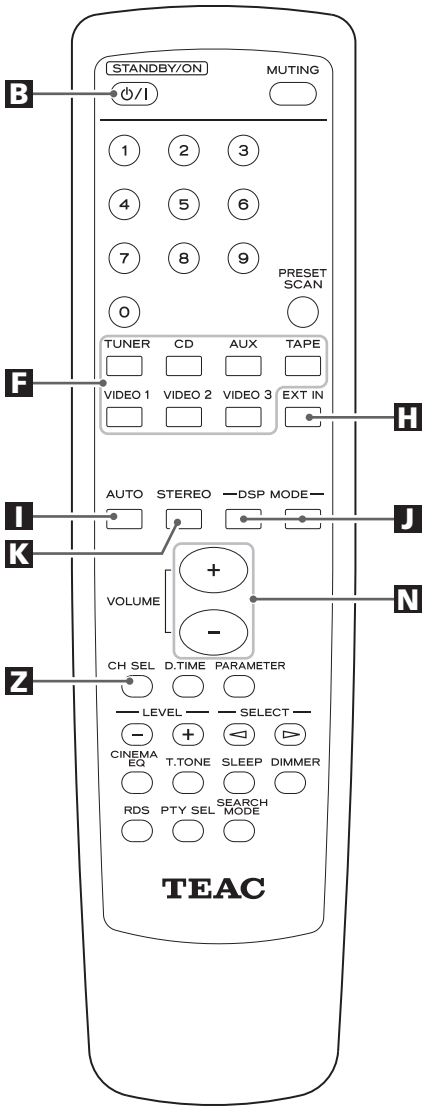


All memories are erased, and the unit returns to the factory settings.

Front Panel



Remote Control Unit



Front Panel and Remote Control Unit

A POWER

Press this switch to turn the unit standby or off.

> The equipment draws nominal non-operating power from the AC outlet with its POWER switch in the OFF position.

B STANDBY/ON

When the POWER switch of the main unit is depressed, use this button to turn the unit on or standby.

C DIGITAL INPUTS

Use this button to select one of the digital input terminals.

D STANDBY indicator

This indicator lights when the unit is in the standby mode. When the unit is turned on, it goes off.

E Remote Sensor

When operating the remote control unit, point it towards the remote sensor.

F INPUT SELECTOR

Use these buttons to select a source.

G Display

H EXTERNAL IN

Use this button to select the source connected to the EXTERNAL IN jacks.

I AUTO

Use this button to change the decoding mode of digital signals.

J DSP MODE

Use this button to select a surround mode.

K STEREO

Use this button to select stereo mode. Sound is output only from the front speakers (and the sub-woofer).

L TAPE MONITOR indicator

This indicator lights when the tape monitor function is on.

M TONE DIRECT

Use this button to turn on or off the tone control.

N MASTER VOLUME

Turn this knob (or press the VOLUME buttons of the remote control unit) to adjust the master volume.

O VIDEO 3 INPUT jacks

You can connect a component such as a portable CD, game player, etc. to these jacks.

P BAND

Use this button to select FM or AM.

Q FM MODE

In FM tuner mode, use this button to select stereo or monaural.

R TUNING MODE

Use this button to select the manual tuning mode or the preset tuning mode.

S TUNING/PRESET

In the manual tuning mode, use these buttons to tune in a station.

In the preset tuning mode, use these buttons to select a preset channel.

T MEMORY/ENTER

Use this button to store speaker settings and preset channels into memory.

U DYNAMIC RANGE

Use this button to compress the dynamic range during playback of a disc recorded in Dolby Digital.

V SPEAKER SETUP

Use this button to start speaker configuration.

W TONE MODE

Use this button to select a tone mode.

X SELECT/LEVEL

Use these buttons to adjust the level of each speaker, etc.

Y CHANNEL SELECTOR (CH SEL)

Select a speaker by pressing this button repeatedly, and adjust the level using the LEVEL buttons.

Z SPEAKER indicator

This indicator lights when the SPEAKER button is set to on.

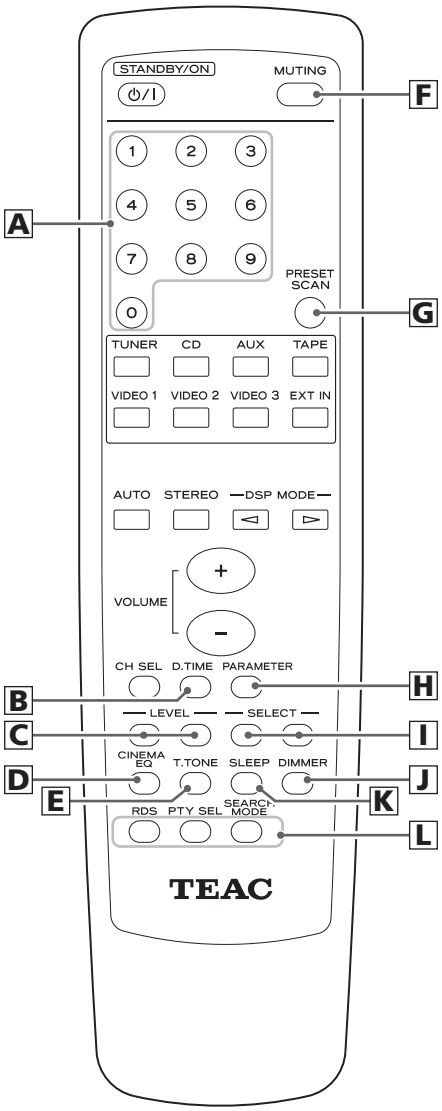
a SPEAKER

Use this button to turn on or off the speakers.

on: Sound is output from the speakers.
off: No sound is output from the speakers.

b PHONES

For private listening, insert the headphones plug into this jack, and adjust the volume by turning the MASTER VOLUME knob.



Remote Control Unit

A Numeric buttons

In tuner mode, use these buttons to select a preset channel.

B D.TIME

Use this button to adjust the delay time.

C LEVEL

Use these buttons to adjust the level of each speaker.

D CINEMA EQ

Use this button to turn on or off the cinema equalizer.

E T.TONE

Use this button to output the test tone.

F MUTING

Use this button to mute the sound temporarily.

G PRESET SCAN

Use this button to scan preset channels.

H PARAMETER

Use this button to change parameters of DOLBY PRO LOGIC II MUSIC.

I SELECT

After pressing the D.TIME or the PARAMETER button, use these buttons to change the setting.

J DIMMER

Use this button to dim or turn off the display.

K SLEEP

Use this button to set sleep timer.

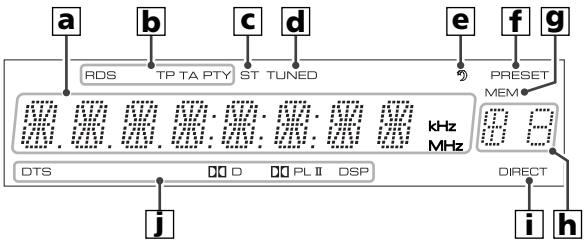
L Buttons for RDS function (European models only)

In FM tuner mode, use these buttons for RDS function.
RDS is available in European countries only.

Note:

To simplify explanations, instructions in this manual refer to the names of the buttons and controls on the front panel only. Associated controls on the remote control will also operate similarly.

Front Panel Display



a displays current status.

b illuminates when RDS function is active (European models only).

c illuminates when the multi-channel sound is downmixed to stereo, or when an FM stereo broadcast is tuned.

d illuminates when a station is tuned.

e illuminates when sleep timer is set.

f illuminates when preset tuning mode is selected.

g blinks when the MEMORY button is pressed.

h displays preset number, sleep time or delay time.

i illuminates when tone control is set to off.

j surround mode

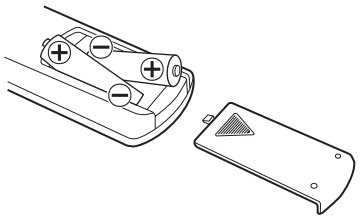
Remote Control Unit

The provided Remote Control Unit allows the unit to be operated from a distance.
When operating the remote control unit, point it towards the remote sensor on the front panel of the unit.

- Even if the remote control unit is operated within the effective range (5m), remote control operation may be impossible if there are any obstacles between the unit and the remote control.

- If the remote control unit is operated near other products which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly. Conversely, the other products may operate incorrectly.

Battery Installation



1. Remove the battery compartment cover.

2. Insert two "AAA" (R03 or UM-4) dry batteries. Make sure that the batteries are inserted with their positive "⊕" and negative "⊖" poles positioned correctly.

3. Close the cover.

Battery Replacement

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

Precautions concerning batteries

- Be sure to insert the batteries with correct positive "⊕" and negative "⊖" polarities.

- Use batteries of the same type. Never use different types of batteries together.

- Rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.

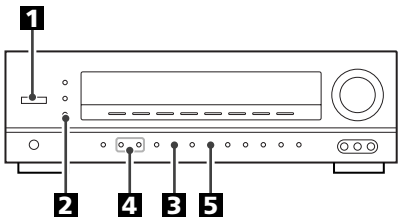
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.

- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

Speaker Configuration (Speaker Setting)

It is important to perform speaker configuration prior to using the unit.
To enjoy multi-channel surround sound, such as 5.1, you need 5 speakers (Front Left, Center, Front Right, Surround Right, Surround Left) and a powered sub-woofer.

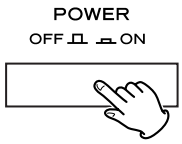
Speaker Size and Subwoofer Setting



- When no action is taken for 5 seconds, the Speaker Setup mode will be cancelled.
- The SPEAKER SETUP button will not work when the SPEAKER button is set to off. In that case, press the SPEAKER button to turn the speakers on.
- The SPEAKER SETUP button will not work when EXTERNAL IN is selected. In that case, press the EXTERNAL IN button to turn it off.

1 Press the POWER switch.

The unit enters standby mode, and the standby indicator lights.



2 Press the STANDBY/ON switch to turn the unit on.

The standby indicator goes off.

3 Hold down the SPEAKER SETUP button for more than 2 seconds.

One of the speaker settings such as "FL-CL-SL" appears on the display, and "-" starts blinking.

- When the surround mode is set to STEREO, only the subwoofer setting is available. Select any other surround mode using the DSP MODE button, and then press the SPEAKER SETUP button.

4 Press the LEVEL buttons to change the Speaker Size setting.

Each time the LEVEL button is pressed, the setting is changed as follows:
FL-CS-RS / FL-CL-RS / FL-CL-RL / FL-CL-RN / FL-CS-RL / FL-CN-RL / FL-CS-RN / FL-CN-RS / FS-CS-RS / FS-CS-RN / FS-CN-RS
(F: front, C: center, R: rear left and right, L: large, S: small, N: none)

Large:
Select this when the connected speakers can fully reproduce sounds below 120 Hz.

Small:
Select this when the connected speakers are rather small and cannot reproduce sounds below 120 Hz.
When this setting is selected, bass frequencies below 120 Hz are output from the sub-woofer (if no sub-woofer is connected, from the front speakers).

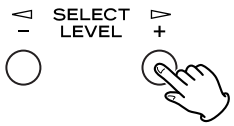
None:
Select this when no speaker is connected. The sound is output from the front (or rear) speakers.

- Depending on your selection, settings available for each speaker changes.
- When the front speaker is set to "FS (small)", the sub-woofer is set to "SUB W-Y (yes)" automatically, and bass frequencies of the front channels are output from a sub-woofer. A powered sub-woofer is indispensable for this setting.
- "FS-CL-RL" and "FS-CN-RN" aren't available.

5 Within 8 seconds, press the MEMORY button.

The Speaker Size setting is memorized.
Be sure to press the MEMORY button, or the changes will be cancelled.

6 Press the LEVEL buttons to change the Subwoofer setting.



SUB W-Y (Subwoofer-Yes):
Select this when a powered sub-woofer is connected.

SUB W-N (Subwoofer-No):
Select this when no sub-woofer is connected.
If the front speaker is set to "FS(small)", you cannot select "No".

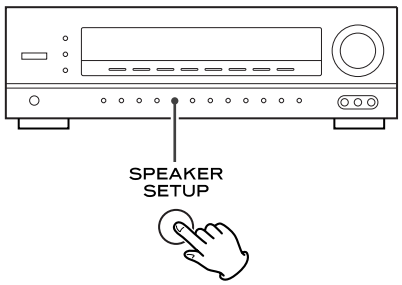
- To enjoy the full home theater experience, we recommend the use of a powered sub-woofer.

7 Within 8 seconds, press the MEMORY button.

The Subwoofer setting is memorized.
Be sure to press the MEMORY button, or the changes will be cancelled.

Checking the Speaker Setting

Press the SPEAKER SETUP button repeatedly to display the current speaker setting.



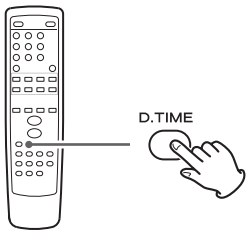
Speaker Configuration (Delay Time)

If the speakers cannot be placed at the same distance from your listening position, adjust the delay time to improve the surround effect.

- The delay time works only when the surround mode is set to Dolby Digital, Dolby Pro Logic II or Dolby Pro Logic.
- When no action is taken for 5 seconds, the delay time mode will be cancelled.

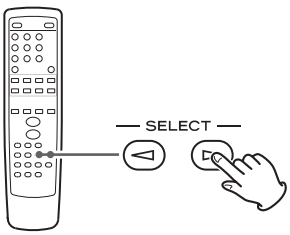
1 Make sure the surround mode is set to Dolby Digital, Dolby Pro Logic II or Dolby Pro Logic (see page 22-23).

2 Press the D.TIME button of the remote control unit to select "CENTER" or "SURR".



"CENTER" (the delay time for the center speaker) is available only during playback of a DVD recorded in Dolby Digital 5.1 format.

3 Change the setting using the SELECT buttons of the remote control unit.



Adjustable range
CENTER: 0 ms (OFF) to 5 ms
SURR (rear): 0 ms (OFF) to 15 ms in 5 ms steps

When the surround mode is set to Dolby Pro Logic or Dolby Pro Logic II MOVIE, 10 ms is automatically added to the REAR delay time.

The delay time of 1 ms corresponds to 30 cm.
For example, if the center (or rear) speaker is closer to the listening position than the front speakers by about 150 cm, set the CENTER to 5 ms.

In Dolby Digital mode, repeat step **2** and **3** to change the other setting.

4 When all the configurations have been finished, leave the unit idle for 5 seconds to exit the delay time mode.

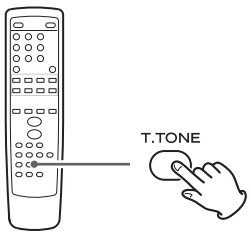
- The delay time for the front speaker and the subwoofer isn't available.
- Delay time setting will not work properly when the center or surround speaker is farther than others.

Balancing relative volume between speakers using Test Tone

The test tone function is useful to adjust the relative volume between speakers.
Once the balance is set, you don't have to change the balance as long as the speakers aren't moved.

- It is also possible to adjust the relative volume during playback of DVD. See page 17 for details.
- Use the remote control from your listening position.
- The T.TONE button will not work when the SPEAKER button is set to off. In that case, press the SPEAKER button to turn the speakers on.
- The T.TONE button will not work when EXTERNAL IN or STEREO is selected. In that case, press the EXTERNAL IN button and the DSP MODE button to select any other surround mode.

1 Press the T.TONE button.

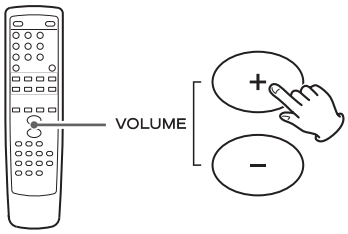


The test tone is emitted from each speaker in the following order at 2-second intervals.

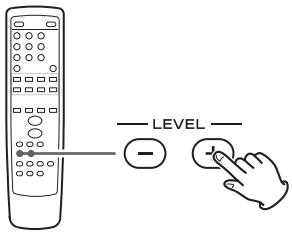
Front Left → Center → Front Right
Subwoofer ← Rear Left ← Rear Right

- If certain speakers are not being used, (for example, no center speaker) the noise sequencer will automatically skip over that channel.

2 Adjust the master volume to the normal listening level.

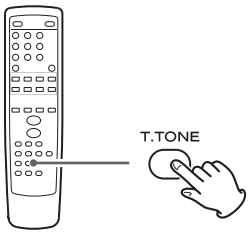


3 Adjust the volume of each speaker so that the test tone from each speakers sounds the same.



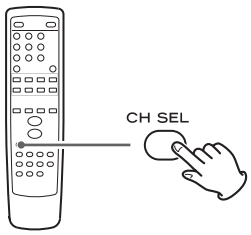
- The level of the speaker emitting the test tone can be changed by pressing the LEVEL buttons.
- The level can be adjusted in 1 dB steps from –15 dB to +15 dB.

4 When the setting has been finished, press the T.TONE button to stop the test tone.



Balancing relative volume between speakers during playback of DVD

1 (During playback of DVD,) press the CH SEL (CHANNEL SELECTOR) button.



Each time the CH (CHANNEL SELECTOR) button is pressed, the channel is changed as follows:

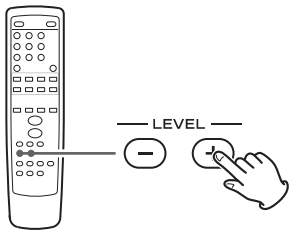
Front Left → Center → Front Right → Rear Right
(DD L or DTS L) ← Subwoofer ← Rear Left

If the balance has already been set using the test tone function, you don't have to change the setting of speakers (FL, C, FR, RR, RL, SW).

If you want to change the LFE level for Dolby Digital or DTS, press the CH SEL (CHANNEL SELECTOR) button repeatedly until "DD L (Dolby Digital LFE)" or "DTS L (DTS LFE)" appears on the display.
(LFE: Low Frequency Effect)

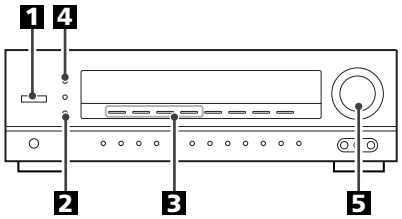
- "DD L" or "DTS L" appears only when the LFE signal of Dolby Digital or DTS is input from the selected DIGITAL IN terminal.
- A speaker set to "None" or "No" will not appear on the display.
- When STEREO is selected, or when the SPEAKER button is set to off, only the front speakers will appear on the display.

2 Within 2 seconds, press the LEVEL buttons to change the level.



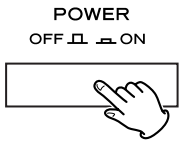
- The level of speakers can be adjusted in 1 dB steps from –15 dB to +15 dB.
- The LFE level can be adjusted in 1 dB steps from –10 dB to 0 dB. The default setting is 0 dB. Lower the LFE level if necessary.

Repeat step 1 and 2 to change other settings.
When all the configurations have been finished, leave the unit idle for 2 seconds to exit the Channel Select mode.



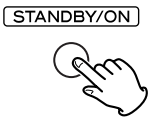
1 Press the POWER switch.

The unit enters standby mode, and the standby indicator lights.

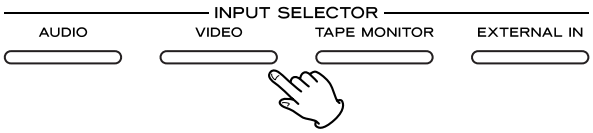


2 Press the STANDBY/ON switch to turn the unit on.

The standby indicator goes off.



3 Select a source by pressing one of the INPUT SELECTOR buttons.



The selected source is shown on the front panel's display.

Each time the AUDIO button is pressed, the source changes as follows:

→ TUNER (Frequency is displayed.) → CD → AUX →

Each time the VIDEO button is pressed, the source changes as follows:

→ VIDEO 1 → VIDEO 2 → VIDEO 3 →

- If one of the INPUT SELECTOR buttons is pressed in the standby mode, the unit is turned on.
- If the source is connected to EXTERNAL IN jacks, press the EXTERNAL IN button and proceed to step **5**.

Tape Monitor Function

If you want to select the source connected to TAPE MONITOR jacks, press the TAPE MONITOR button to turn the tape monitor function on. The TAPE MONITOR indicator lights.
Press the TAPE MONITOR button again to cancel the tape monitor function.

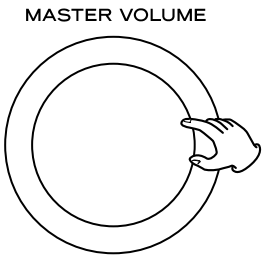
- When the tape monitor function is on, sources other than TAPE MONITOR cannot be heard. Be sure to turn the function off while listening to other sources.
- If the EXTERNAL IN button is pressed, the tape monitor function will be automatically set to off.
- If a 3-head cassette tape deck is connected to TAPE MONITOR (PLAY and REC) jacks, and if the tape monitor function is set to on during recording, you can listen to not the source sound but the sound being recorded.

4 When you selected VIDEO (1, 2 or 3) or CD in step 3, press the DIGITAL INPUTS button repeatedly to select the terminal.

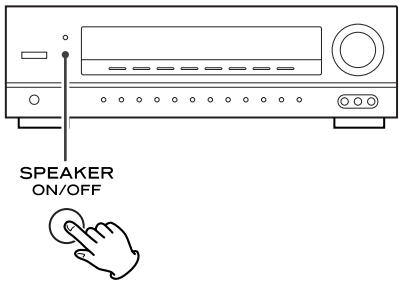
o1: Select this when the source is connected to DIGITAL IN (OPTICAL) terminal.
c1: Select this when the source is connected to DIGITAL IN (COAXIAL 1) terminal.
c2: Select this when the source is connected to DIGITAL IN (COAXIAL 2) terminal.
A: Select this when the source is connected to analog AUDIO IN jacks.

- The digital input display blinks when the unit cannot perceive the digital signal. In that case, connect a digital device to the DIGITAL IN terminal, switch it on, and select the terminal by pressing the DIGITAL INPUTS button.
- You can hear the sound from the selected DIGITAL IN terminal as far as VIDEO (1, 2 or 3) or CD has been selected in step **3**.

5 Play the source, and gradually turn up the volume to the required level by turning the VOLUME knob.

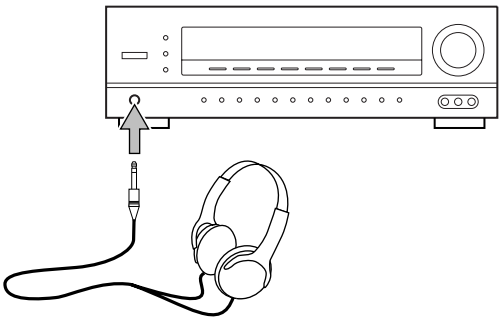


Speaker On/Off



Press the SPEAKER button to turn the speakers on or off. When ON is selected, the SPEAKER indicator lights.

Headphones



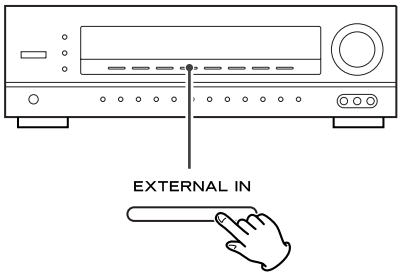
For private listening, first reduce the volume level on the receiver to minimum. Then insert the plug from your headphones into the PHONES jack, and adjust the volume by turning the VOLUME knob.

If you want to cut off the sound from speakers, press the SPEAKER button to turn it off.

- When the SPEAKER button is set to off, the multi-channel sound is downmixed to 2 channel automatically.

CAUTION
Always lower the volume level prior to plugging in your headphones. TO AVOID DAMAGING YOUR HEARING - Do not place your headphones on your head until after you have plugged them in.

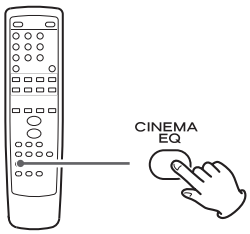
EXTERNAL IN (6 channel direct input)



If the source is connected to EXTERNAL IN jacks, press the EXTERNAL IN button. "EXT, IN" appears on the display, and 6 discrete analog signals can be heard from speakers.

Press the EXTERNAL IN button again (or select any other source by pressing the INPUT SELECTOR buttons) to cancel the EXTERNAL IN function.

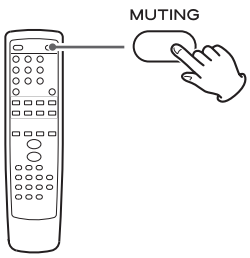
Cinema Equalizer



The Cinema Equalizer compensates for edgy or shrill movie sound tracks.
When the CINEMA EQ button is pressed once, the current status ("C-EQ OFF" or "C-EQ ON") is scrolled. Press the button again to select on or off.

- This function does not work with 96 kHz PCM (2CH stereo) signals.
- This function does not work when EXTERNAL IN is selected.

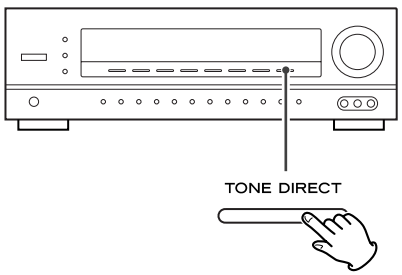
Muting



To mute the sound temporarily, press the MUTING button. Press the MUTING button again to restore the sound. If you change the volume during the muting, the muting will be cancelled.

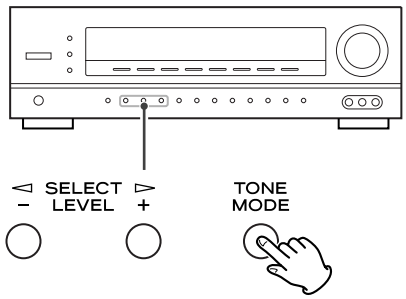
- While muting is engaged, "MUTE" blinks on the display.

Tone Direct



Press the TONE DIRECT button to turn on or off the tone control function.
When the tone control is set to off, the DIRECT indicator lights on the display and you can listen to the sound without tone effects.

Tone Control



- Tone control does not work and the DIRECT indicator lights when the digital signals of DTS or Dolby Digital are input, or when EXTERNAL IN is selected.

1. If the DIRECT indicator is lit, press the TONE DIRECT button to turn the tone control function on.

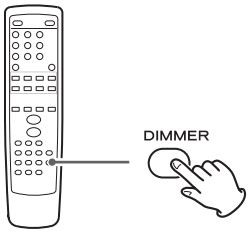
2. Press the TONE MODE button to select "BASS" or "TRBL".

To adjust the level of low frequency sound range, select "BASS".
To adjust the level of high frequency sound range, select "TRBL (treble)".

3. Within 2 seconds, press the LEVEL buttons to change the setting.

The level can be adjusted in 2 dB steps from –10 to +10.

Dimmer



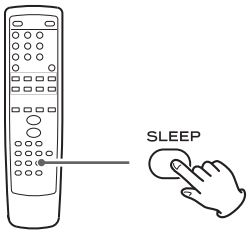
You can dim or turn off the front panel's display by pressing the DIMMER button.

- When the display is turned off, pressing any button will turn the display on.
- This function will be cancelled when the STANDBY/ON or the POWER switch is pressed.
- When you set the sleep timer, the display is dimmed automatically.

Sleep Timer

The power can be switched off after a specified amount of time.

Press the SLEEP button repeatedly until desired time appears on the display.



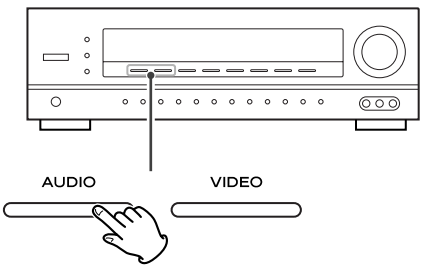
SLEEP 10 (20, 30, 60, 90):
The power will be switched off 10 (20, 30, 60 or 90) minutes later.

Normal display:
the sleep timer is off.

When you set the sleep timer, the display is dimmed, and the remaining time is displayed.

Recording a Source

1 Select a source to be recorded by pressing one of the INPUT SELECTOR buttons.

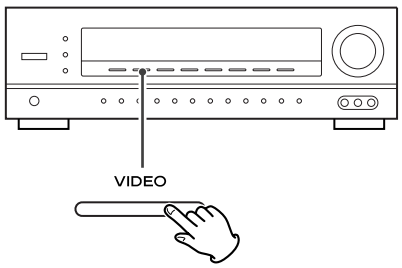


2 Start recording on the cassette tape deck connected to TAPE MONITOR REC jacks.

- The volume and tone control have no effect on the recording signals.
- The analog signals input from the EXTERNAL IN jacks cannot be recorded.

Dubbing from VIDEO 2 or 3 to VIDEO 1

1 Select VIDEO 2 or 3 by pressing the VIDEO button (or the VIDEO 2 or 3 button of the remote control unit).



2 Start recording on the VCR connected to VIDEO 1 REC jacks.

3 Start playback on the VCR connected to VIDEO 2 or 3 INPUT jacks.

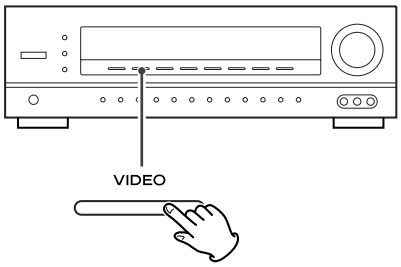
The audio and video signals input from VIDEO 2 or 3 are output from VIDEO 1 REC jacks.

- Copy protected DVD discs cannot be dubbed.

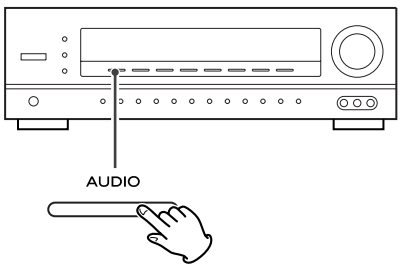
Dubbing the audio and video signals separately

While dubbing the video signal of VIDEO 2 or 3, you can replace the sound from VCR with the sound from an audio source such as CD.

1 Select the video source to be recorded using the VIDEO button (or the VIDEO 2 or 3 button of the remote control unit).



2 Select the audio source to be recorded (CD, TUNER or AUX) using the AUDIO button (or the corresponding buttons of the remote control unit).



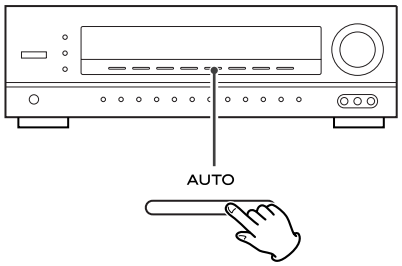
3 Start recording on the VCR connected to VIDEO 1 REC jacks.

4 Start playback of the video and audio source to be recorded.

The picture from the video component appears on the TV, and the sound from the audio component is output from the speakers.

- When EXTERNAL IN is selected, the DSP MODE and the AUTO button do not work.

1 If a digital device is connected to DIGITAL IN terminals, select desired decoding mode by pressing the AUTO button.



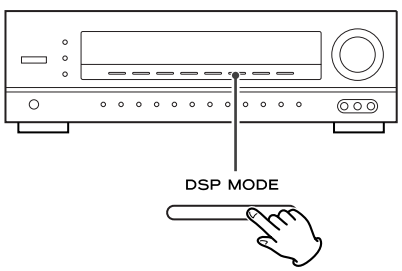
Each time the AUTO button is pressed, the decoding mode is changed as follows:

IN-AUTO (default):
The appropriate decoding mode is selected automatically. Usually, select this.
IN-DTS:
Select this only when the input signal is DTS.
IN-PCM:
Select this only when the input signal is PCM.

- The AUTO button works only when the function is set to VIDEO or CD and the digital input is selected.
- When IN-AUTO is selected, noise may be heard during playback of a DVD recorded in DTS format. In this case, select IN-DTS.

- If the selected decoding mode does not match with the input signal, the digital input display will blink and no sound will be heard.

2 Select the desired surround mode by pressing the DSP MODE button.



Each time the DSP MODE button is pressed, the surround mode changes.

A When Dolby Digital signals are input and IN-AUTO is selected, the surround mode is set to DOLBY DIGITAL automatically. If you press the DSP MODE button, you can select one of the following surround modes:

When the source is Dolby Digital 5.1-channel:
DOLBY DIGITAL

When the source is Dolby Digital 2-channel:
DOLBY PRO LOGIC II MOVIE, DOLBY PRO LOGIC, DOLBY PRO LOGIC II MUSIC

B When DTS signals are input and IN-AUTO or IN-DTS is selected, the surround mode is set to DTS automatically. The DSP MODE button does not work.

C When the source is PCM (2-channel stereo) and IN-AUTO or IN-PCM is selected, or when analog stereo signals are input, you can select one of the following surround modes:

DOLBY PRO LOGIC II MOVIE, DOLBY PRO LOGIC, DOLBY PRO LOGIC II MUSIC, MATRIX, CHURCH, THEATER, HALL, STADIUM

- When the DSP MODE button is pressed once, the current surround mode is displayed. Press the DSP MODE button repeatedly to select any other surround mode.

- When you press the DSP MODE button, the sound is cut off for a moment.

- DOLBY DIGITAL can be selected only during playback of a DVD disc recorded in DOLBY DIGITAL format.

- Press the STEREO button to cancel the surround mode.

DTS (DTS Digital Surround)

During playback of a DVD disc recorded in DTS format, the surround mode is set to DTS automatically.

DTS Digital Surround delivers up to 5.1 channels with lower audio compression than Dolby Digital. It provides the clarity and dynamics of the original master soundtrack.

Dolby Digital

During playback of a DVD disc recorded in DOLBY DIGITAL format, the surround mode is set to DOLBY DIGITAL automatically.

Dolby Digital delivers up to 5 totally discrete, full frequency audio channels (front left and right, center, and surround left and right), plus 0.1 channel called LFE(Low-Frequency Effects). LFE delivers a separate non-directional bass signal to the sub-woofer for more dynamic deep bass sound effects.

Dolby Pro Logic II

Dolby Pro Logic II is an advanced matrix decoder that gives you 5.1-channel surround sound (front left, center, front right, surround left and surround right) from any stereo program material, as well as Dolby Surround encoded material.
Compared with Pro Logic's monaural, limited-bandwidth surround channel, Pro Logic II can provide two full-range surround channels.

- DOLBY PRO LOGIC II will not work on monaural source.

DOLBY PRO LOGIC II MOVIE:

This mode is optimized for movies or Dolby Surround encoded materials. This mode is also appropriate for use with video games.

DOLBY PRO LOGIC II MUSIC:

The Music mode creates a rich and enveloping surround ambience from stereo sources such as music CDs.

Dolby Pro Logic

Dolby Pro Logic is a matrix decoder that decodes the four channels of surround sound (front left, center, front right and surround) that have been encoded onto the stereo soundtracks of Dolby Surround encoded material such as VHS movies. The surround channel is monaural, but is played through two surround speakers.

MATRIX

This mode emphasizes the sense of expansion for music source.

CHURCH

This mode provides reverberations as if you are in a stone-built church.

THEATER

This mode provides a three dimensional surround effect similar to that of movie theater.

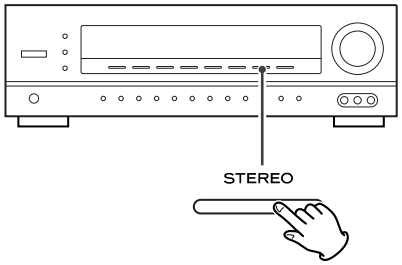
HALL

This mode is suitable for orchestral music such as classical music or opera.

STADIUM

This mode provides the expansive sound field to achieve the true stadium effect when watching baseball or soccer games.

Stereo Mode



Press the STEREO button to select the stereo mode. "STEREO" is scrolled, and sound is output from front speakers (and the sub-woofer if connected).

To cancel the stereo mode, select any other surround mode by pressing the DSP MODE button.

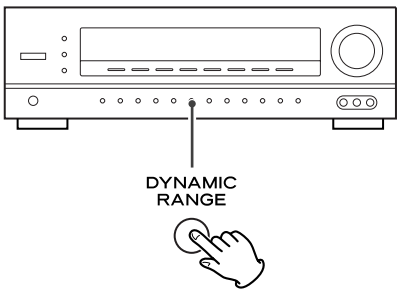
- If you select the stereo mode while the digital signal of DOLBY DIGITAL or DTS are being input, the multi-channel sound is downmixed to 2-channel.

- If the SPEAKER button is set to off while the digital signal of DOLBY DIGITAL or DTS are being input, the multi-channel sound is downmixed to 2-channel automatically. And when the SPEAKER button is set to on, it will return to the previous surround mode.

Dynamic Range Compression

In many listening situations, you may find loud passages objectionable. Adjusting this setting allows you to compress the sounds into a range that you may find more suitable for a particular listening situation. Dolby Digital satisfies these needs through the dynamic range controlling.
Select one of the followings to fit the individual listening situation of the audience.

During playback of DVD, press the DYNAMIC RANGE button repeatedly until desired setting appears on the display.



DYNR 0.0 (off) :
Audio with uncompressed dynamic range. Select this when you don't want to compress the dynamic range.

DYNR 0.5 :
Audio with partially compressed dynamic range.

DYNR 1.0 :
Audio with fully compressed dynamic range.

- The default setting is "DYNR 0.0".

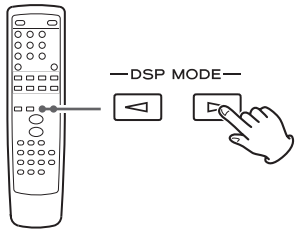
- This function is effective only when playing back a DVD disc recorded in Dolby Digital format on the DVD player connected via DIGITAL IN terminal. This control has no effect on other discs.

- This function may not work with some discs.

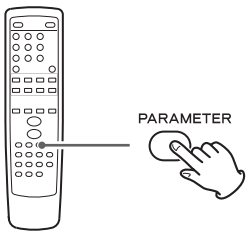
DOLBY PRO LOGIC II parameters

You can adjust the parameters for DOLBY PRO LOGIC II MUSIC.

1 Select DOLBY PRO LOGIC II MUSIC by pressing the DSP MODE button.



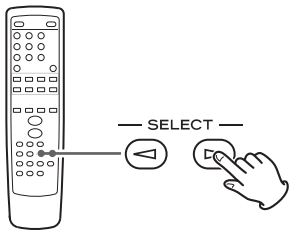
2 Press the PARAMETER button to select the parameter to be changed.



Each time the PARAMETER button is pressed, the parameter is changed as follows:

PANO → C-WID → DIMEN

3 Within 5 seconds, press the SELECT button to change the value.



PANO (panorama):

This mode extends the front stereo image to include the surround speakers for an exciting wraparound effect with side wall imaging. Select "ON" or "OFF".
The default setting is "OFF".

C-WID (center width control):

This adjusts the center image so it may be heard only from the center speaker, only from the left/right speakers as a phantom image, or from all three front speakers to varying degrees.
The adjustable range is from 0 to 7. The default setting is "3".

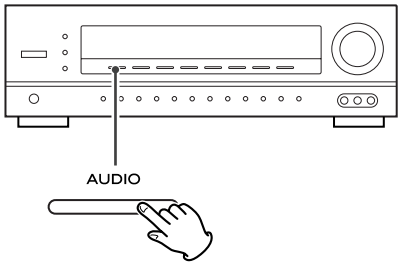
DIMEN (dimension control):

This adjusts the sound-field either towards the front or towards the rear. The adjustable range is from –3 to +3. The default setting is "0".

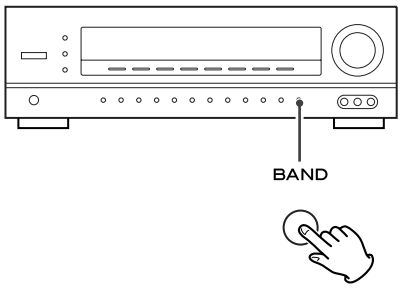
Repeat step **2** and **3** to adjust other parameters.
When all the configurations have been finished, leave the unit idle for 5 seconds to exit.

- Make sure the antennas have been connected (see page 3).

1 Select TUNER by pressing the AUDIO button (or the TUNER button of the remote control unit).

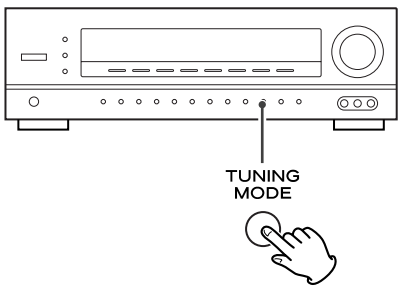


2 Select AM or FM by pressing the BAND button.



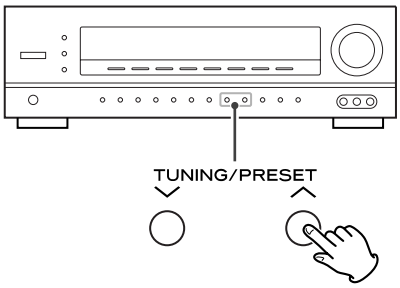
- If the BAND button is pressed while the source other than TUNER was selected, the source will be switched to TUNER automatically.

3 If "PRESET" indicator is lit, press the TUNING MODE button to select the manual tuning mode.



The "PRESET" indicator disappears from the display.
This button is used to change the tuning mode.

4 Select the station you want to listen to (auto selection).



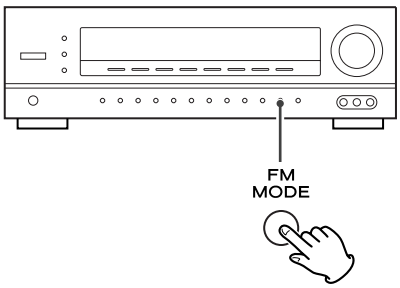
Hold down the TUNING/PRESET button for more than 0.5 seconds.
When a station is tuned in, the tuning process will stop automatically.
If you want to stop the tuning process, press the TUNING/PRESET button.

Selecting stations which cannot be tuned automatically (manual selection)
When the TUNING/PRESET button is pressed momentarily (0.5 second or less), the frequency changes by a fixed step.

Press the TUNING/PRESET button repeatedly until the station you want to listen to is found.

- "TUNED" is displayed when a broadcast is correctly tuned in.

FM MODE Button



Pressing this button alternates between Stereo mode and Mono mode.

Stereo:
FM stereo broadcasts are received in stereo and the "ST" indicator lights in the display.

- If the sound is distorted and the "ST" indicator flashes, the signal is not strong enough for good stereo reception. In this case, change to MONO mode.

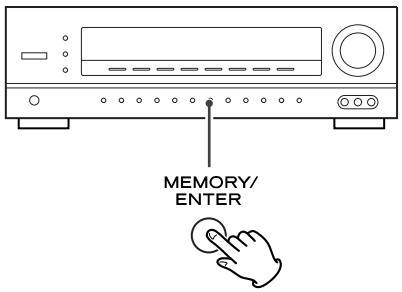
Mono:
To compensate for weak FM stereo reception, select this mode. Reception will now be forced monaural, reducing unwanted noise.

You can store up to 30 stations.

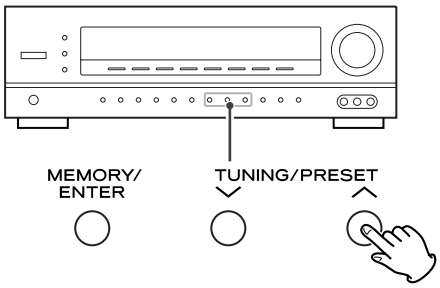
Manual Memory Presetting

1 Tune in a station you want to listen to (see steps 1 to 4 of page 26).

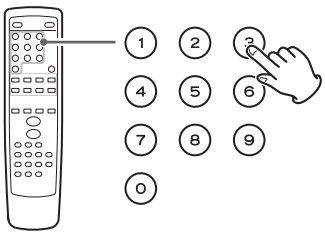
2 Press the MEMORY button.



3 While the "MEM" indicator is blinking, select a preset channel to store the station using the TUNING/PRESET buttons, and then press the MEMORY button.



You can also use the numeric buttons of the remote control unit to select a preset channel.



Example:

To select channel No. 3: 0 → 3

To select channel No. 6: 6

To select channel No. 16: 1 → 6

To select channel No.16 for example, press "1", and within 2 seconds press "6".

To select channel No.1, 2 or 3, press "0" and then the number (1, 2 or 3). As an example, to select number 3, press "0" and "3". (Optionally, you may press just the number "3" and then wait a few seconds.)

To select channel No.4 through 9, simply press the appropriate button (4 through 9).

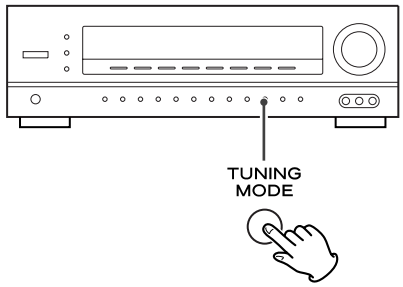
When using the numeric buttons, the station is stored automatically without pressing the MEMORY button.

To store more stations, repeat steps 1 to 3.

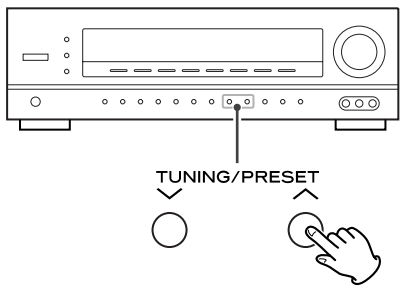
How to select preset stations

1 If "PRESET" indicator isn't lit, press the TUNING MODE button to select the preset tuning mode.

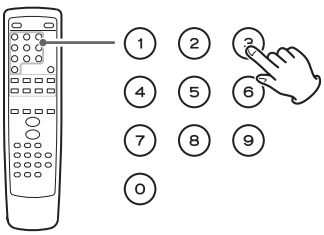
- When using the remote control unit, you can skip this step.



2 Press the TUNING/PRESET buttons repeatedly until the desired preset station is found.



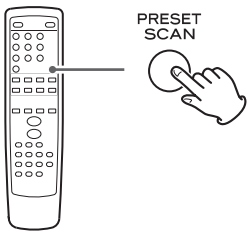
- You can also use the numeric buttons to select a preset channel.



Scanning preset stations

Press the PRESET SCAN button of the remote control unit. Preset stations stored in memory are scanned at 5 seconds intervals.

When the station you want to listen to is found, press the PRESET SCAN button again to stop scanning.



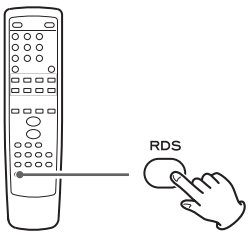
RDS

The Radio Data System(RDS) is a broadcasting service which allows stations to send additional information along with the regular radio programme signal.

RDS works on the FM waveband in Europe only.

1 Tune in an FM station you want to listen to (see steps 1 to 4 of page 26).

2 Press the RDS button.



Each time the RDS button is pressed, the RDS mode is changed as follows:

PS (Programme Service name)
displays PS or a station's name. If there is no PS data, "NO NAME" will be displayed.

PTY (Programme Type)
displays the programme type. If there is no PTY data, "NO PTY" will be displayed.

CT (Clock Time)
displays the information about times provided from the station.
If there is no time data, "NO TIME" will be displayed.

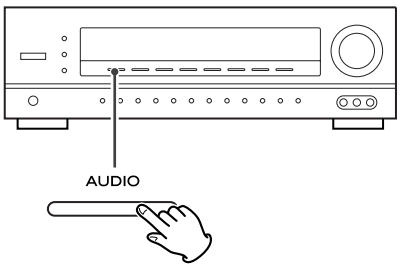
RT (Radio Text)
displays the news of stations composed of up to 64 symbols.
If there is no RT data, "NO TEXT" will be displayed.

Off (frequency)

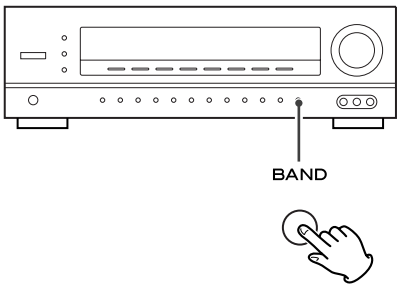
RDS Search

A station can be searched by this function.

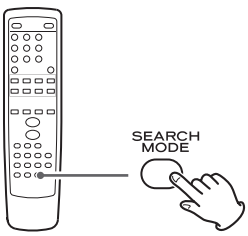
1 Select TUNER by pressing the AUDIO button (or the TUNER button of the remote control unit).



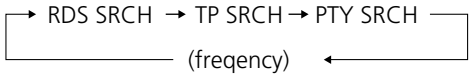
2 Select FM by pressing the BAND button.



3 Press the SEARCH MODE button.



Each time the SEARCH MODE button is pressed, the search mode is changed as follows:



RDS search

Select "RDS SRCH" by pressing the SEARCH MODE button, and within 8 seconds press the SELECT button of the remote control unit.
The unit starts searching and "RDS SRCH" blinks.
When a station offering RDS services is found, the station's name will be displayed.

If the station found is not the desired one, press the SELECT button of the remote control unit again while the RDS indicator is blinking.

If no RDS station is found, "NO RDS" will be displayed.

TP search

Select "TP SRCH" by pressing the SEARCH MODE button, and within 8 seconds press the SELECT button of the remote control unit.
The unit starts searching for a station offering the traffic programme, and "TP SRCH" blinks.

If no station is found or the signal is too weak, "NO TRAFF" will be displayed.

PTY search

1. Select "PTY SRCH" by pressing the SEARCH MODE button.

2. Within 8 seconds, select the desired PTY programme by pressing the PTY SELECT button.
   You can select from 31 kinds.

3. Press the SELECT button of the remote control unit.
   The unit starts searching.
   When the programme that you have selected is found, searching will stop and the programme type will be displayed.

   If no station is found or if the signal is too weak, "NO PROG" will be displayed.

PTY

NEWS	: brief announcements, events, public opinion, reports, actual situations.
AFFAIRS	: a kind of suggestion including practical announcements other than news, documents, discussion, analysis and so on.
INFO	: daily information or reference such as weather forecast, consumer guide, medical assistance and so on.
SPORT	: sports related programs.
EDUCATE	: educational and cultural information.
DRAMA	: all kinds of radio concert and serial drama.
CULTURE	: all aspects of national or local culture including religious events, philosophy, social science, language, theatre, and so on.
SCIENCE	: programs on natural science and technology
VARIED	: popular programs such as quiz, entertainment, private interview, comedy, satire and so on.
POP M	: program on commercial, practical and popular songs, and sale volume of discs, etc.
ROCK M	: practical modern music generally composed and played by young musicians.
EASY M	: popular music usually lasting for less than 5 minutes.
LIGHT M	: classical music, instrumental music, chorus, and light music favored by non-professionals.
CLASSICS	: orchestra including great operas, symphony, chamber music and so on.
OTHER M	: other music styles(Rhythm & Blues, Reggae, etc.)
WEATHER	: weather reports, forecast
FINANCE	: financial reports, commerce, trading
CHILDREN	: children's programs
SOCIAL	: social affairs
RELIGION	: religious programs
PHONE IN	: program in which the public expresses its view by phone.
TRAVEL	: travel reports
LEISURE	: programs concerning recreational activities
JAZZ	: jazz music
COUNTRY	: country music
NATION M	: national music
OLDIES	: music from the so-called golden of popular music
FOLK M	: folk music
DOCUMENT	: documentaries
TEST	
ALARM	: a program notifying an emergency or a natural disaster.
NONE	: No programme type or undefined.

If you experience problems with this unit, please take the time to look through this chart and see if you can solve the problem yourself before you call your dealer or TEAC service center.

No power

➜ Check the connection to the AC power supply. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or fan.

There is no sound or only a very low-level sound is heard.

➜ Adjust the volume by turning the MASTER VOLUME knob.
➜ If the SPEAKER indicator isn't lit, press the SPEAKER button to turn it on.
➜ Check that the speakers and components are connected securely.
➜ Check the operation of the connected component.
➜ Check the audio output setting of your DVD player.
➜ Select the proper source using the INPUT SELECTOR buttons and the DIGITAL INPUTS button (see page 18).
➜ Select the proper surround mode (see page 22).
➜ If "MUTE" is blinking on the display, press the MUTING button to restore the sound.

No sound from rear (surround) or center speakers.

➜ Check the speaker setting (see page 14).
➜ Check the channel level setting (see page 16).
➜ Select the proper surround mode (see page 22).
➜ Check the audio output setting of your DVD player. Play a multi-channel source.

Sound cuts off during listening to the music or no sound even though power is ON.

➜ Speaker impedance is less than prescribed for this unit.
➜ Turn the power off and reduce the volume.

Low bass response.

➜ Speaker polarity (+/–) is reversed. Check all speakers for correct polarity.

Severe hum or noise is heard.

➜ Check that the speakers are connected securely.
➜ Make sure the line cords and speaker cables are as far away from the AC supply as possible.

The digital input display blinks.

➜ The unit cannot perceive the digital signal (see page 18).
➜ Select the proper decoding mode by pressing the AUTO button (see page 22).

No picture.

➜ Check that the system is connected properly.
➜ Turn on the TV.
➜ Make sure you have selected the proper video input on the TV so that you can view the pictures.
➜ Select the proper video source using the VIDEO button.

Cannot listen to any station, or signal is too weak.

➜ Make sure the antenna is properly connected.
➜ Tune in the station properly.
➜ If a TV is near the unit, turn it off.
➜ Install the antenna again after relocating it to a better reception position.
➜ An external antenna may be required.

Though the broadcast is stereo, it sounds monaural.

➜ Press the FM MODE button.

The DIGITAL INPUTS button doesn't work.

➜ If the TAPE MONITOR indicator is lit, press the TAPE MONITOR button to turn it off.

Remote control doesn't work.

➜ Press the POWER switch of the main unit to turn it standby.
➜ If the batteries are dead, change the batteries.
➜ Use remote control unit within the range (5m) and point at the front panel.
➜ Clear obstacles between the remote control unit and the main unit.
➜ If a strong light is near the unit, turn it off.

If normal operation is not restored, unplug the power cord from the outlet and plug it again.

Maintenance

If the surface of the unit gets dirty, wipe with a soft cloth or use diluted mild liquid soap. Be sure to remove any excess completely. Do not use thinner, benzine or alcohol as they may damage the surface of the unit.

Specifications

Amplifier Section

Output Power . . . . . 100 W + 100 W (Stereo, 0.7 % THD, 40 Hz to 20 kHz, 6 Ω)
120 W + 120 W (6 Ω, JEITA)
Surround Output Power . . . . . 125 W per channel (0.7 % THD, 1 kHz, 6 Ω, only one channel driven)
150 W per channel (6 Ω, JEITA)
Total Harmonic Distortion . . . . . 0.09 % (at 100 W, 1 kHz, 6 Ω)
Audio Input Sensitivity/Impedance . . . . . *LINE: 200 mV/47 kΩ
Output Level/Impedance (TAPE REC) . . . . . 200 mV / 2.2 kΩ
Frequency Response . . . . . *LINE: 20 Hz-50 kHz, +0 / –3 dB
Signal-to-Noise Ratio . . . . . *LINE: 92 dB (IHF-A)
Tone Control . . . . . BASS: ± 10 dB at 100 Hz, TREBLE: ± 10 dB at 10 kHz

Digital Audio Section

Sampling Frequency . . . . . 32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Digital Input Level . . . . . COAXIAL (75Ω): 0.5 Vp-p
OPTICAL (660nm): –15 dBm to –21 dBm

Video Section

Output level . . . . . 1 Vp-p (75 Ω)
Jacks . . . . . RCA jack

FM Tuner Section (Without notes 100.1 MHz, 65 dBf)

Tuning Range . . . . . 87.5 MHz-108.0 MHz (50 kHz steps)
Total Harmonic Distortion (1 kHz) . . . . . Mono: 0.5%, Stereo: 0.8%
Frequency Response . . . . . 30 Hz-15 kHz, ±3 dB
Stereo Separation (1 kHz) . . . . . 42 dB
Signal-to-Noise Ratio . . . . . Mono: 70 dB
Stereo: 65 dB

AM Tuner Section

Tuning Range . . . . . 522 kHz-1,611 kHz (9 kHz steps)
Usable Sensitivity . . . . . 500 µV/m
Total Harmonic Distortion . . . . . 1.5% at 100 dB/m
Signal-to-Noise Ratio . . . . . 40 dB at 100 dB/m

General

Power Requirements . . . . . AC 230 V, 50 Hz
Power Consumption . . . . . 200 W (STANDBY: 3 W or less)
AC Outlet (except Australia model, total 100 W max.) . . . . . switched x 1
Dimensions (W x H x D) . . . . . 440 x 141 x 330 mm
Weight (net) . . . . . 9.9 kg

Standard Accessories

AM Loop Antenna x 1
FM T-type Antenna x 1
FM Matching Transformer x 1
Remote Control Unit (RC-1040 or RC-1042) x 1
Battery (AAA, R03, UM-4) x 2
Owner's Manual x 1

*: LINE means CD, TAPE, VIDEO.

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.

TEAC

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TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905) 890-8008
TEAC MEXICO, S.A. De C.V	Campesinos N°184, Colonia Granjas Esmeralda, Delegacion Iztapalapa, CP 09810, México DF Phone: (525) 581-5500
TEAC UK LIMITED	Unit 19 & 20, The Courtyards, Hatters Lane, Watford, Hertfordshire, WD18 8TE , U.K. Phone: (0845) 130-2511
TEAC EUROPE GmbH	Bahnstrasse 12, 65205 Wiesbaden-Erbenheim, Germany Phone: 0611-71580
TEAC ITALIANA S.p.A.	Via C. Cantù 9/A, 20092 Cinisello Balsamo, Milano, Italy Phone: 02-66010500
TEAC AUSTRALIA PTY., LTD. A.B.N. 80 005 408 462	280 William Street, Melbourne VIC 3000, Australia Phone: (03) 9672-2400

This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number Serial number

1005 · MA-0974 B